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DOI 10.2210/pdb1gfs/pdb

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PDB ID or keyword C. Author

Title GDP-FUCOSE SYNTHETASE FROM E. COLI

Authors Somers, W.S., Stahl, M.L., Sullivan, F.X.

Somers, W.S., Stahl, M.L., Sullivan, F.X. (1998) GDP-fucose synthetase from Escherichia coli: structure of a unique member of the short-chain dehydrogenase/reductase family that catalyzes two distinct reactions at the same active site. Structure 6: 1601-1612

Primary Citation

[Abstract] 🗐

Deposition 1998-08-17 Release 1999-08-17 History

Experimental Type X-RAY DIFFRACTION Data N/A

R-Value R-Free Resolution[Â] Space Group Parameters P 3, 2 1 0.171 (obs.) 0.214

Length (Å) 104.20 104.20 74.90 Angles [°] gamma Unit Cell

Polymer 1 Molecule GDP-FUCOSE SYNTHETASE Chains A Description Asymmetric Unit

Classification Oxidoreductase

Source Polymer 1 Scientific Name Escherichia cofi Sexpression system, Escherichia cofi

SCOP

Classification GDP-4-keto-6-deoxy-d mannose epimerase/reductase Esche (GDP- fucose synthetase) NAD(P)-binding Rossmann-fold domains NAD(P)-binding Rossmann-fold domains Tyrosine-dependent oxidoreductases Alpha and beta proteins (a/b)

CATH Classification Topology Homology NAD(P)-bind Rossmann-lil 1gfsA01 Aipha Beta 3-Laver(aba) Sandwich Rossmann fold UDP-galactose 4-epimerase; domain 1 UDP-galactos epimerase, d Alpha Beta Alpha-Beta Complex

PEAM Chain PFAM Accession PEAM ID Description Classification NAD dependent PF01370 🗹 NADP_Rossm Epimerase Family epimerase/dehydratase family

GO Terms Polymer Molecular Function Biological Process GDP-FUCOSE SYNTHETASE (1GFS:A) catalytic activity
coenzyme binding cellular metabolic process

Cellular Component none

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